



PATENT

Attorney Docket No. A-65686-1/RFT/RMS/RMK

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Hau H. DUONG, et al.

Serial No.: 09/397,957

Filing Date: 17 September 1999

For: **Signal Detection Techniques for the  
Detection of Analytes**

Examiner: Frank Wei Min LU

Group Art Unit: 1655

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail addressed to U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, Virginia 22202 on 28 May 2002.

Signed

Todd V. LEONE

## AMENDMENT

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Sir:

Following is Applicants' response to the Office Action mailed 27 February 2002. A Request for Continued Examination accompanies this response. The response is filed on or before the due date of 28 May 2002, the first business day after the 27 May 2002 Federal Holiday Memorial Day deadline, making this a timely response. Please amend the application as follows:

## IN THE CLAIMS

Please cancel claims 12, 13, 16-18, and 21-27.

Please amend claims 11, 14, 15, 19, and 20 to read as follows:

11. (Amended) A method of determining the presence of target analytes in a sample comprising:
- a) applying said sample to an array comprising a plurality of electrodes, at least one of which comprises an assay complex comprising:
    - i) a capture binding ligand covalently attached to said electrode;
    - ii) a target analyte; and
    - iii) an electron transfer moiety;
  - b) applying an input waveform to said electrode to generate an output waveform comprising a harmonic component;
  - c) detecting said output waveform at said electrode;
  - d) analyzing said harmonic component to determine the presence of said target analytes.